Express Mail No. EV 383356688 US
Date of Deposit: November 29, 2005

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-3, 5, 11, 15-29, 34-41, 44, 46 (cancelled):

4.(previously presented): A cooling assembly comprising:

a heat exchanger, said heat exchanger including a case member enclosing a wet side in heat exchange relationship with a dry side, said sides being substantially hermetically sealed from one another;

a first air moving member adapted to move air through said dry side to produce a cooled stream of air;

a liquid distributing member within said wet side;

a liquid sump element associated with said wet side and adapted to receive liquid from said wet side and to make said liquid available to said liquid distributing member;

at least two air moving members adapted to move air through said wet side from different locations to produce a humidified mass of turbulent air on said wet side, said humidified mass of turbulent air including a liquid phase of said liquid;

conduit members adapted to combine said cooled stream of air and said humidified mass of turbulent air at a location remote from said dry side and deliver the resultant combined stream of air to the interior of a structure.

6.(previously presented) A cooling assembly of claim 4 including a power source poweringly associated with said air moving members, said power source including an ambient energy harvesting member.

7.(original): A cooling assembly of claim 4 wherein said liquid distributing member includes a pump and a spray head.

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8.(previously presented): A cooling assembly :

a heat exchanger, said heat exchanger including a case member including a wet side in heat exchange relationship with a dry side, said wet and dry sides being substantially hermetically sealed from one another;

a first air moving member adapted to moving air through said dry side to produce a cooled stream of air;

a humidifying system air humidifyingly associated with said wet side;

at least two air moving members adapted to moving air through said wet side from different directions to produce a humidified mass of turbulent air on said wet side, said air moving members requiring electrical power for their operation;

conduit members adapted to combine said cooled stream of air and said humidified mass of turbulent air at a location remote from said dry side and deliver the resultant combined stream of air to the interior of a structure;

a secondary battery system, said secondary battery system being adapted to supplying all of said electrical power; and

an ambient energy harvesting system chargingly associated with said secondary battery system.

9.(previously presented): A cooling assembly according to claim 8 wherein said at least two air moving members being adapted to drawing air from said interior.

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10.(previously presented): A cooler installation for use in low humidity high temperature environments comprising:

a structure having an interior containing ambient air;

a tube and shell heat exchanger coolingly associated with said interior, said tube and shell heat exchanger including a case member confining a dry tube side and a wet shell side in heat exchanging relationship with one another;

a dry side air moving member air movingly associated with said dry side and adapted to move said ambient air through said dry side and to provide a dry side air stream;

a plurality of wet side air moving members air movingly associated with said wet side, and adapted to move air through said wet side from different directions and to provide a wet side air stream; and

a water supply system humidifyingly associated with said wet side, said cooling installation being adapted to discharge said dry side and wet side air streams into said interior, said cooling installation being adapted to combine said dry side and wet side air streams before said discharge.

12.(original): A cooling installation of claim 10 including a secondary battery system poweringly associated with said shell and tube heat exchanger, and an ambient energy harvesting system chargingly associated with a secondary battery system.

13.(original): An air conditioning installation according to claim 10 wherein said cooling installation is adapted to cooling said ambient air on both said dry and wet sides.

14.(original): An air conditioning installation according to claim 10 wherein said tube side is substantially hermetically sealed from said shell side, and said tube and shell heat exchanger is adapted to allowing heat to flow from said dry side to said wet side.

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30.(previously presented): A cooling assembly comprising:

a heat exchanger, said heat exchanger including a wet side in heat exchanging relationship with a dry side;

a first air moving member adapted to moving air through said dry side to produce a cooled stream of air;

a water supply system air humidifyingly associated with said wet side;

a plurality of air moving members adapted to moving air from different sources through said wet side to produce a mass of moist turbulent air on said wet side, said air moving members requiring electrical power for their operation;

a secondary battery system, said secondary battery system being adapted to supplying all of said electrical power; and

a solar energy harvesting system chargingly associated with said secondary battery system.

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31.(previously presented): An air conditioning assembly for cooling the interior of a structure comprising:

a heat exchanger, said heat exchanger including a wet side in heat exchanging relationship with a dry side;

a first air moving member adapted to moving air through said dry side to produce a cooled stream of air;

a water supply system air humidifyingly associated with said wet side;

a plurality of air moving members adapted to moving air from different sources through said wet side to produce a mass of moist turbulent air on said wet side, said first and second air moving members and said water supply system all requiring electrical power for their operation, said air conditioning assembly being adapted to combining said cooled and moist turbulent streams of air in a confined space and discharging said combined streams of air into said interior;

a secondary battery system, said secondary battery system being adapted to supplying all of said electrical power; and

an ambient energy harvesting system chargingly associated with said secondary battery system.

32.(original): An air conditioning assembly of claim 31 wherein said ambient energy harvesting system comprises a solar cell.

33.(original): An air conditioning assembly of claim 31 wherein said ambient energy harvesting system comprises a wind turbine.

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42.(previously presented): An air conditioning assembly for cooling the interior of a structure comprising:

a heat exchanger, said heat exchanger having a shell side and a tube side;

a first air moving member adapted to move air through said tube side to produce a cooled stream of air;

a liquid dispensing member on said shell side adapted to distribute liquid substantially throughout said shell side;

a liquid sump element associated with said shell side and adapted to receive said liquid from said shell side and to make said liquid available to said liquid dispensing member;

a plurality of air moving members adapted to move air through said shell side from different directions to produce a turbulent mass of air on said shell side, said turbulent mass of air including a vapor phase of said liquid; and

conduit members adapted to convey said cooled stream of air and said turbulent mass of air from said heat exchanger to an intersection and from said intersection to said interior.

43.(original): An air conditioning assembly of claim 42 including a power source, said power source including solar panels.

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45.(previously presented): An air conditioning installation for use in low humidity high temperature environments comprising:

a structure having an interior containing ambient air;

a tube and shell heat exchanger air conditioningly associated with said interior, said tube and shell heat exchanger including a tube side and a shell side, said tube side being adapted to being dry, and said shell side being adapted to being wet;

a tube side air moving member air movingly associated with said tube side and adapted to move said ambient air through said tube side and to provide a tube side air stream;

a plurality of shell side air moving members air movingly associated with said shell side, and adapted to move said ambient air through said shell side from different directions, to produce a turbulent mass of air on said shell side, and to provide a shell side air stream;

a water supply system wettingly associated with said shell side, said water supply system including a sump, a water emitting element on said shell side, and a water pump member circulatingly positioned between said sump and said water emitting element, said water supply system being adapted to maintain said shell side wet with water; and

an air conduit system air receivingly associated with said tube and shell sides and adapted to combine said tube side and shell side air streams into a combined air stream at a location remote from said dry side and to discharge said combined air stream into said interior.